The new interface and associated data reformatting between host application **121** and second client device **180** continues as long as the user operates host application **121** or until TeleShaper application **150** is disabled.

Another use for process **300** is to provide a rapid means of creating an alternate

5   interface to a Web site when communication between host application **121** and second client device **180** is a known protocol, such as HTML, XML, etc.

Other embodiments of the invention will be apparent to those skilled in the art from a consideration of the specification or practice of the invention disclosed herein. It is intended that the specification and examples be considered as exemplary only, with the

10   true scope and spirit of the invention being indicated by the following claims.

What is claimed is:

1   1.   A trainable system for providing a new client interface to an existing application,

2   comprising:

3

4   a shaper computer operating a trainable user interface translator

5   application and further comprising and storing a shaper rule set and data

6   packet format maps identifying data formats acceptable to a host

7   application, and an auxiliary database for storing training data sets;

8

9   a training terminal electrically connected to the shaper computer for

10   establishing the shaper rule set and data packet format maps during a

11   training session;

12

13   a host computer electrically connected to the shaper computer and a first

14   client device operating first client software, the host computer operating

15   the host application, thereby generating data streams to and from the first

16   client software that may be monitored and analyzed by the shaper

17   computer to establish the shaper rule set and data packet format maps;

18

19   a second client device electrically connected to the shaper computer upon

20   which a new client interface is implemented;

21

22   wherein the shaper computer communicates user data between the new

23   client interface and the host application, whereby the trainable user

24   interface translator application remaps the user data according to the data

25   packet format maps defined during the training session and transmits the

26   remapped user data to the second client device for presentation in the new

27   client interface.

28

1   2.   The trainable system of claim 1, wherein one or more of the electrical connections

2   are implemented on one or more networks.

3

4   3.   The trainable system of claim 1, wherein one or more of the electrical connections

5   are direct connections.

6

7   4.   The trainable system of claim 1, wherein the host computer and the first client

8   device are the same computer.

9

10   5.   The trainable system of claim 1, wherein the shaper computer and the second

11   client device are the same computer.

12

13   6.   In a trainable system comprising a shaper computer operating a trainable user

14   interface translator application and storing data packet format maps, a training

15   terminal electrically connected to the shaper computer, a host computer

16   electrically connected to the shaper computer and a first client device, further

17   comprising a data storage device and operating a host application, thereby

18   generating streams of data packets to and from the first client device, and a

19   second client device electrically connected to the shaper computer, a method of

20   training the trainable system to provide a new client interface to the host

21   application, comprising the steps of:

22

23   selecting training data sets designed to fully exercise the host application;

24

25   entering a training data set into the trainable user interface translator

26   application;

27

28   operating the trainable user interface translator application via the training

29   terminal and first client device to exercise the host application to generate

1   streams of data packets between the host application and the first client

2   device;

3

4   analyzing the format of the data packets to create packet maps and storing

5   the packet maps;

6

7   entering new training data via the training terminal into the trainable user

8   interface translator application, which creates modified data packets

9   according to the packet maps and transmits the modified data packets to

10 the host computer, which in turn updates data stored in the data storage

11 device and generates response data packets;

12

13 exercising the host application via the first client device to review the

14 presence of updated data;

15

16 repeating the steps above with data expected to create exceptions and

17 errors in the operation of the host application; and

18

19 determining if all data packet formats have been mapped, and if not

20 repeating the steps above.

21

22 7. In a trained system comprising a shaper computer operating a trainable user

23   interface translator application and storing data packet format maps, a training

24   terminal electrically connected to the shaper computer, a host computer

25   electrically connected to the shaper computer and a first client device, and

26   operating a host application, thereby generating streams of data packets to and

27   from the first client device, and a second client device electrically connected to

28   the shaper computer, a method of using the trained system for providing a new

29   client interface to the host application, comprising the steps of:

1

2 designing and implementing a new client interface on the second client

3 device;

4

5 starting via the training terminal the trainable user interface translator

6 application;

7

8 operating the second client device to communicate with the host

9 application via the shaper computer, which remaps data packets

10 transmitted from the host application according to the data packet format

11 maps and forwarding remapped data packets to the second client device

12 for presentation in the new client interface; and

13

14 determining whether to continue using the new client interface, and if so,

15 reverting to the previous step.

16